

## ABSTRACT

Secure communication between a resource-constrained device and remote network nodes over a network with the resource-constrained acting as a network node.

- 5 The remote network nodes communicate with the resource-constrained device using un-modified network clients and servers. Executing on the resource-constrained device, a communications module implements one or more link layer communication protocols, operable to communicate with a host computer, operable to communicate with remote network nodes and operable to implement network security protocols
- 10 thereby setting a security boundary inside the resource-constrained device.